



Qty: 100 µg

Mouse anti-E-Cadherin (Human)

Catalog No. 13-5700

Lot No.: See product label

Exp. Date: See product label

Mouse anti-E-Cadherin (Human)

FORM

This monoclonal antibody is supplied lyophilized in Tris-buffered saline, 1.0% bovine serum albumin. Ascites fluid was produced in BALB/c mice. The antibody was purified by ammonium sulfate precipitation and anion exchange chromatography.

Please note: this product does not contain a preservative.

CLONE: SHE78-7

ISOTYPE: Mouse IgG_{2a}

IMMUNOGEN: Human placenta

RECONSTITUTION

Reconstitute the lyophilizate with 50 µl of distilled water to yield a concentration of 2 mg/ml. Recommended diluent: 20 mM Tris buffered saline (pH 7.4), 10 mM CaCl₂, and 1.0% bovine serum albumin with optional 0.1% sodium azide.

SPECIFICITY

This antibody reacts strongly with human epithelial cadherin (E-cadherin or uvomorulin).

REACTIVITY

Human, (positive control: A431 cell lysate).

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

	ELISA ⁽²⁾ :	1:10,000 (using immobilized A431 cells)
	Western Blotting :	1 – 2 µg/ml (reducing or non-reducing condition).
Inhibition of E-cadherin-dependent cell-cell contact ⁽⁴⁾ :		5-10 µg/ml
	Immunoblotting ⁽²⁾ :	1 – 2 µg/ml
	Immunoprecipitation ⁽³⁾ :	
	Adhesion blockage ⁽⁵⁾ :	
	Other applications ⁽⁵⁻⁶⁾ :	

STORAGE

Lyophilized antibody is stable at 2-8°C for 2 years. Reconstituted solution (2.0mg/mL) should be stored in aliquots at -20°C for 1 year. Alternatively reconstituted solution can be stored at 2-8°C for 6 months, if 0.1% sodium azide is added. Solutions at less than 2.0mg/mL concentration should not be stored.

(cont'd)

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PI135700

(Rev 02/10) DCC-10-0383

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BACKGROUND

E-cadherin (uvomorulin, cell-CAM120/80) is a calcium dependent cell-adhesion molecule expressed predominately in epithelial tissues. This 120 kDa transmembrane glycoprotein is localized predominately to the lateral cell border and is associated with contractile cytoskeleton. E-cadherin molecules exhibit homophilic binding interactions and play a central role in cellular organization and morphogenetic regulation. Numerous studies have demonstrated that reduction and/or loss of E-cadherin expression in carcinomas correlates positively with the potential of these tumors for invasion and metastasis.

REFERENCES

1. Yasumoto, M., et al; *Japanese Journal of Cancer Research 52nd Annual Meeting Abstracts*:386. Note: This abstract has not been translated to english (1993).
2. Katayama, M. et al; *Int. J. Oncology* 5:1049-1057 (1994).
3. Watabe, M.; *J Cell Biology* 127(1):247-256 (1994).
4. St. Croix, B. et al; *J. Cell Biol.* 142(2):557-571 (1998).
5. Kantak, S.S. and Kramer, R.H.; *J.Biol. Chem.* 273(27):16953-16961 (1998).
6. Mitra, et al; *Laboratory Investigation* 76:99-107 (1997).
7. Day, M.L., et al; *J. Biol. Chem.* 274:9656-9664 (1999).

RELATED PRODUCTS

Product	Clone/PAD	Cat. No.
Ms x E-Cadherin	4A2C7	33-4000
Ms x E-Cadherin	HECD-1	13-1700
Rt x E-Cadherin	ECCD-1	13-1800
Rt x E-Cadherin	ECCD-2	13-1900
Rt x N-Cadherin	NCD-2	13-2100
Ms x N-Cadherin	3B9	33-3900
Rt x P-Cadherin	PCD-1	13-2000
Ms x P-Cadherin	NCC-CAD-299	13-5800
Rb x pan-Cadherin	ZyPC7	71-7100
E-Cadherin ELISA Kit (42 test)	Kit	99-1700
Ms x α -Cadherin	α CAT-7A4	13-9700
Rb x α -Cadherin	ZER2	71-1200
Ms x β -Catenin	CAT-5H10	13-8400
Ms x γ -Catenin	PG-11E4	13-8500
Ms x p120 ^{ctn}	15D2	33-9600
Rb x β -Catenin	CAT-15	71-2700

Product	Conjugate	Cat. No.	
Goat anti-Mouse IgG (H+L) (ZyMAX™ Grade)	Purified	81-6500	
	FITC	81-6511	
	TRITC	81-6514	
	Cy™3	81-6515	
	Cy™5	81-6516	
	HRP	81-6520	
	AP	81-6522	
	Biotin	81-6540	
	Goat anti-Rat IgG (H+L)	Purified	62-9500
		FITC	62-9511
TRITC (Rhodamine)		62-9514	
Cy™3		62-9515	
Cy™5		62-9516	
HRP		62-9520	
Alkaline Phosphatase		62-9522	
Biotin		62-9540	
Sepharose® 4B		62-9541	
Protein A		Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241	

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Explanation of symbols			
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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